



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,538	12/30/2004	Akio Nodera	263152US0PCT	9530

22850 7590 08/23/2005

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.  
1940 DUKE STREET  
ALEXANDRIA, VA 22314

EXAMINER

SANDERS, KRIELLION ANTIONETTE

ART UNIT PAPER NUMBER

1714

DATE MAILED: 08/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/518,538	<b>Applicant(s)</b> NODERA, AKIO	
	<b>Examiner</b> Kriellion A. Sanders	<b>Art Unit</b> 1714	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/30/04</u> . | 6) <input type="checkbox"/> Other: ____  |

1/2

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nodera US Patent No. 6727312 in view of Nodera et al '929.

Nodera '312 disclose polycarbonates resins that are rendered resistant to flaming by the incorporation of non-halogen and non-phosphorus containing compounds. The invention provides for a polycarbonate resin composition having good flame retardancy and having good impact resistance, high stiffness and good chemical resistance. The flame-retardant polycarbonate resin composition comprises a resin mixture of (A) from 1 to 99% by weight of a polycarbonate and (B) from 1 to 99% by weight of a thermoplastic polyester, and contains, relative to 100 parts by weight of the resin mixture, (C) from 0.01 to 3 parts by weight of a polyfluoro-olefin resin, and (D) from 1 to 400 parts by weight of a polycarbonate-polyorganosiloxane copolymer and/or (E) from 0.1 to 10 parts by weight of a functional silicone compound. The compositions may further contain an inorganic filler, (F), which is for enhancing the stiffness and the flame retardancy of its moldings. The inorganic filler includes, for example, talc, mica, kaolin, diatomaceous earth, calcium carbonate, calcium sulfate, barium sulfate, glass fibers, carbon fibers, and potassium titanate fibers. Especially preferred for use herein are tabular fillers of, for example, talc

and mica, and fibrous fillers. The content of the inorganic filler (F) in the resin composition may fall between 1 and 50 parts by weight, preferably between 2 and 30 parts by weight, relative to 100 parts by weight of the resin mixtures of the components (A) and (B) therein.

Nodera et al, '929 discloses a polycarbonate resin composition which comprises (A) a polycarbonate-polyorganosiloxane copolymer, (B) a polycarbonate resin and (C) a polytetrafluoroethylene which has fibril forming capability and an average molecular weight of at least 500,000 wherein the amount of the polyorganosiloxane moiety contained in the component (A) is 0.1 to 2.0% by weight based on the total amount of the components (A) and (B). The resin composition is excellent in flame retardancy, thermal stability and fluidity while preventing melt dripping at the time of combustion. The resin composition is used to produce electronic equipment. The polytetrafluoroethylene (hereinafter abbreviated to "PTFE") as the component (C) has an average molecular weight of at least 500,000, preferably in the range of 500,000 to 10,000,000, and more preferably in the range of 1,000,000 to 10,000,000. The blending amount of the component (C) is 0.05 to 1.0, preferably 0.1 to 0.5 part by weight based on 100 parts by weight of the total amount of the components (A) and (B).

The resin composition according to the present invention may be compounded, when necessary, with any of various types of inorganic fillers and additives, other kinds of synthetic resins or elastomers, or the like (hereinafter abbreviated to the component (D)) in addition to the above-mentioned components (A), (B) and (C) to the extent that such compounding does not impair the object of the present invention.

Art Unit: 1714

Suitable fillers to be compounded in the PC resin compositions include glass fiber (GF), carbon fiber, glass beads, glass flake, carbon black, calcium sulfate, calcium carbonate, calcium silicate, titanium oxide, alumina, silica, asbestos, talc, clay, mica, powdery quartz and the like. As the aforesaid additive, mention may be made of an antioxidant of hindered phenol base, phosphorus base such as phosphorous ester base and phosphoric ester base or the like; a ultraviolet absorber of benzotriazole base or benzophenone base; an external lubricant such as an aliphatic carboxylic acid ester, paraffin, silicone oil, polyethylene wax or the like; a mold release agent; an antistatic agent, a coloring agent; and the like.

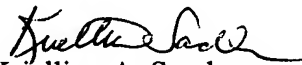
Each of Nodera and Nodera et al disclose that fillers may be incorporated into the patented compositions. Nodera discloses silicon based fillers other than silica. Nodera et al equates silica with many of the fillers disclosed by Nodera. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to employ the silica of Nodera et al in lieu of the silicon based fillers of Nodera with the expectation of achieving compositions having appreciable properties in flame retardancy, impact resistance, high stiffness and good chemical resistance, absent a clear showing of unexpected results attributable to the use of silica in specific.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kriellion A. Sanders whose telephone number is 571-272-1122. The examiner can normally be reached on Monday through Thursday 6:30-7:00.

Art Unit: 1714

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Kriellion A. Sanders  
Primary Examiner  
Art Unit 1714

ks